

# Regulation of re-epithelialization and immune modulation by surfactant, surfactant protein A and transforming growth factor $\beta$

Citation for published version (APA):

Willems, C. H. M. P. (2012). Regulation of re-epithelialization and immune modulation by surfactant, surfactant protein A and transforming growth factor  $\beta$ . [Doctoral Thesis, Maastricht University]. Datawyse / Universitaire Pers Maastricht. <https://doi.org/10.26481/dis.20121024cw>

## Document status and date:

Published: 01/01/2012

## DOI:

[10.26481/dis.20121024cw](https://doi.org/10.26481/dis.20121024cw)

## Document Version:

Publisher's PDF, also known as Version of record

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### **Regulation of re-epithelialization and immune modulation by surfactant, surfactant protein A and transforming growth factor $\beta$**

**Coen Willems**

**Maastricht, 24 oktober 2012**

1. SP-A kan TGF- $\beta$  binden en de werking ervan beïnvloeden. *(dit proefschrift)*
2. Surfactant en SP-A beïnvloeden zowel de immuunrespons als het epitheelherstel. *(dit proefschrift)*
3. Het toevoegen van SP-A aan de bestaande surfactant therapie zou gunstige effecten kunnen hebben. *(dit proefschrift)*
4. De bevinding dat bestaande surfactant bereidingen de ontstekingsreactie kunnen reguleren vergroot het potentieel van deze curatieve strategie. *(dit proefschrift)*
5. Een grotere complexiteit van celweekmodellen limiteert de beschikbaarheid van analyse technieken.
6. De spatiotemporale visualisatie en manipulatie van processen op moleculair en cellulair niveau zal in toenemende mate van belang worden om biologische systemen te doorgronden.
7. De door technische innovatie bewerkstelligde groei van de datadichtheid in wetenschappelijk onderzoek vereist verdere automatisering van analyse systemen, hetgeen ingenieurs onmisbaar maakt in de medische wetenschap.
8. De noodzaak voor klinische relevantie in de medisch wetenschap gaat ten koste van basaal wetenschappelijk onderzoek.
9. In theory, there is no difference between theory and practice. But, in practice, there is *(J. van de Snepscheut)*
10. Het is een kwestie van geduld .....*(Rowwen Hèze)*
11. Zonder BAL-len was deze promotie niet mogelijk geweest.